



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: TAY Mk620-15 BYPASS RATIO: 3.0
 UNIQUE ID NUMBER: 1RR020 PRESSURE RATIO (π_{00}): 16.1
 COMBUSTOR:
 ENGINE TYPE: MTF RATED THRUST (F_{00}) (kN): 61.6

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F ₀₀ (g/kN) or SN	13.9	79.0	50.1	25.0
AS % OF ORIGINAL LIMIT	71.0	66.9	69.5	92.4
AS % OF CAEP/2 LIMIT (NO _x)			86.8	
AS % OF CAEP/4 LIMIT (NO _x)			99.2	
AS % OF CAEP/6 LIMIT (NO _x)			105.6	
AS % OF CAEP/8 LIMIT (NO _x)			121.5	

DATA STATUS

- PRE-REGULATION
 x CERTIFICATION
 - REVISED (SEE REMARKS)

TEST ENGINE STATUS

x NEWLY MANUFACTURED ENGINES
 - DEDICATED ENGINES TO PRODUCTION STANDARD
 - OTHER (SEE REMARKS)

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE
 (ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)
 x OUT OF PRODUCTION (DATE: -)
 - OUT OF SERVICE (DATE: -)

MEASURED DATA

MODE	POWER SETTING (%F ₀₀)	TIME (minutes)	FUEL FLOW (kg/s)	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NO _x	
TAKE-OFF	100	0.7	0.760	0.80	0.70	21.10	21.3
CLIMB OUT	85	2.2	0.630	0.30	0.80	16.80	18.9
APPROACH	30	4.0	0.230	0.90	3.90	5.70	13.1
IDLE	7	26.0	0.110	3.40	24.10	2.50	3.4
LTO TOTAL FUEL (kg) or EMISSIONS (g)			342	684	4440	2814	-
NUMBER OF ENGINES				2	2	2	2
NUMBER OF TESTS				6	6	6	6
AVERAGE D _p /F ₀₀ (g/kN) or AVERAGE SN (MAX)				10.7	69.3	45.6	21.3
SIGMA (D _p /F ₀₀ in g/kN, or SN)				1.4	4.1	0.7	1.6
RANGE (D _p /F ₀₀ in g/kN, or SN)				9.11-12.97	65.5-74.8	44.9-46.7	18.9-22.8

ACCESSORY LOADS

POWER EXTRACTION 0 (kW) AT - POWER SETTINGS
 STAGE BLEED 0 (% CORE FLOW) AT - POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	100
TEMPERATURE (K)	288
ABS HUMIDITY (kg/kg)	0.005

FUEL

SPEC	AVTUR
H/C	1.91
AROM (%)	20

MANUFACTURER: Rolls-Royce plc
 TEST ORGANIZATION:
 TEST LOCATION:
 TEST DATES: 01/10/1986-01/11/1986

REMARKS

1. Data from certification report CRR19019

Compliance with Fuel Venting requirements: - ('x' if complies, 'PR' if pre-regulation, '-' if information is not available)